### State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47- 039 - 06365 County Kanau	ha D	istrict EIK	
Quad Big Chimney Pad Name	F	ield/Pool Name Nat	ional Guard
Farm name West Virginia Department of Public Saf	ety, Armory Board	Well Number <u>#1</u>	
Operator (as registered with the OOG) Reserve Oil a	13 - CO		
Address 929 Charleston Road City S	encer	State WV	Zip 25276
Top hole Northing 424760  Landing Point of Curve Northing Northing Northing	Eastin	deviation survey ng <u>0449289</u> ng	
Elevation (ft) 860 GL Type of Well	New □ Existing	Type of Report	Interim AFinal
Permit Type   Deviated   Horizontal   Horizon	tal 6A 💢 Vertical	Depth Type	Deep 🔀 Shallow
Type of Operation □ Convert □ Deepen 🔀 Drill □	Plug Back □ Redrill	ing □ Rework 🏚	(Stimulate
Well Type □ Brine Disposal □ CBM & Gas □ Oil □ Sec	ondary Recovery	ution Mining   Stora	ge 🗆 Other
Type of Completion □ Single ⋈ Multiple Fluids Produ  Drilled with □ Cable ⋈ Rotary	ced □ Brine paGas	□NGL □Oil □	Other
Drilling Media Surface hole Air □ Mud □Fresh Wa  Production hole □ Air Mud □ Fresh Water □ Bring  Mud Type(s) and Additive(s)	ž	ole ≱rAir □ Mud	□ Fresh Water □ Brine
		REC	CEIVED
Date permit issued 4/18/14 Date drilling comm	nenced 5/6/2014	- III	
Date completion activities began5/22/2014		100	\$/89M4
	i <u>NA</u>	WV Der	partment of
Please note: Operator is required to submit a plugging applic	ation within 5 days of ve	rbal permission while	ntal Protection
Freshwater depth(s) ft 60', 517'	The control of the co		
Salt water depth(s) ft			
Coal depth(s) ft _W/A	5.5	(Y/N) depths No	
Is coal being mined in area (Y/N) No			Reviewed by:

API 47- 03	1-06365	_ Farm nar	ne WV Dept	of Public	Safety	Well r	number_#	(Nation	161 Guard
CASING STRINGS		asing	Depth	New or Used	Grade wt/ft		asket epth(s)		circulate (Y/N)
Conductor		33/811	18'	New	48 16		N/4		by hand
Surface	121/4"	95811	336'	New	26 lb		NA		bbls to pit
Coal									To post
Intermediate 1	876"	7"	1814'	New	1716		2951	Yes. 56	bls to pit
Intermediate 2					7770			,	
Intermediate 3									
Production	61/2"	11/211	4505.35	New	11.61	16 5	TS: 11,21,31	41.51	
Tubing	0/2	1.5					101	3,21	
Packer type and o	lepth set	-							
CEMENT	Class/Type	Number	Slurry		field	Volume	Cemer		woc
DATA	of Cement	of Sacks			³/sks)	(ft <sup>2</sup> )	Top (M		(hrs)
Conductor	Type 1	7	NA		1/A	NA	0		9 hrs
Surface	Туре 4	/25	15.6	1.	17		0		10hrs
Coal	16								
Intermediate 1	Type 1/28 Ca 28 gol.	esflate 27.	5 14.8	1.4	10	385.0	0		15 hrs
Intermediate 2	+ Type 1 NEAT	50	C1+0-1+0-1	1.1	B	59.0	0		15 hrs
Intermediate 3									
Production	Strong Lite 250/kel	seal 155	/2.3	Z.	34	362.7			
Tubing									
Drillers TD (f Deepest forms Plug back pro Kick off deptl	ation penetratedf	hinestree	<u>z</u>		D (ft) <u>45</u> to (ft) <u>45</u>				
Check all wire	eline logs run	a caliper  □ neutron	density resistivity			nal □ ind ya ter		≸sonic	
Well cored	□ Yes 💢 No 🗀	□ Convention	nal 🗆 Sidev	vall	Wer	e cuttings o	collected [	Yes 💥 N	No
95/8" 7"	NA								
4/2"	@jts: 10,20,30,	40,50,60							
WAS WELL	COMPLETED AS S	HOT HOLE	×Yes □	No DI	ETAILS _				
WAS WELL	COMPLETED OPE	N HOLE?	□ Yes > N	o DET	AILS				
WERE TRAC	CERS USED □ Yes	× No	TYPE OF TI	RACER(S)	JSED				

API 47- 639 - 06365

Farm name WV Dept of Public Safety Well number # 1 (National Guard)

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	5/22/14	4431	3948	25	hower Huver Rhinostneet
2	5/22/14	3940	3761	20	Formation(s) hower Huran / Rhinestneet Lower Huran
					V

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage. 7/28 HCL Amount of Max Breakdown Amount of Stage Stimulations Ave Pump Ave Treatment Amount of Rate (BPM) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls) Nitrogen/other (units) Date Pressure (PSI) No. 53,320 NZ 1813 500 gallow 2522 5/23/14 53,320 2307 1965 1,000 galloy 811,016 NZ Z 2585 52,950 2421

API 47- <u>039</u>	- 06365	5	Farm	name_W	V De	pt of	Public	Safety	Well number # 1 (Nat	ional Guard
PRODUCING	FORMAT	ION(S)		DEPTH	<u>s</u>					
Lower H	turas					TVD	3761	- 436	7 MD	
Lower t	eet		_	4360 -	442	4	4367	- 44	31	
	AND THE PERSON NAMED IN COLUMN TO TH		—: 52 ws							
Please insert ad										
									Flow □ Pump	-
SHUT-IN PRE	SSURE	Surface	70	psi	Botto	m Hole_		psi	DURATION OF TEST	hrs
OPEN FLOW	Gas 267	mcfpd	Oil	bpd _	NGL	bpd	Wate	r bpd	GAS MEASURED BY  Estimated AOrifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH II NAME T	N FT D	BOTTOM EPTH IN FT TVD		IN FT		NFT D		ROCK TYPE AND RECORD QUAN LUID (FRESHWATER, BRINE, OIL,	
	0		7.337	0						
				-						
		-								
		-					-	C	Attachment A	
Please insert ad	l ditional pa	ages as a	pplicable.					JRE	ATTACHINEM /1	
Drilling Contra Address <u>929</u>				ling	City	Spen	er		State WV Zip Z523	76
Logging Comp Address515				d Prad		107		2.	State TX Zip 776	067
Cementing Cor Address <u>R4</u>	5 Hall	Rogo	e were	yelvice	City	Buck	hann	al	State _VVV _Zip _Z62	20/
Stimulating Co				Servi	es <u>J</u>	Buck	hann	on	StateWV zip_ 262	0/
Please insert ad						51				
Completed by	41	n Fie	lds	**	riel -	Office			e 304-927-5033 Date 7/8/26	7/0
Signature	ayar	1 yees		oog . v	e	UTTLE	7/5/5/	444		24

Formation	TOP (TVD)	BOTTOM (TVD)	TOP (MD)	BOTTOM (MD)	Remarks
K.B to G.L.	<del> </del>	- '	0	7	80' hole is damp
Clay	0	5	7	12	
Rock	5	353	12	360	517' hole is wet
Sand and Shale	353	818	360	825	1/4" stream
Salt Sand	818	1185	825	1192	Started soaping
Shale	1185	1208	1192	1215	
Maxton	1208	1486	1215	1493	1028' 2" stream
Little Lime	1486	1528	1493	1535	
Big Lime	1535	1709	1542	1716	1392' switch
Big Injun	1709	1741	1716	1748	to fluid
Sand and Shale	1741	2345	1748	2352	
Berea	2345	2355	2352	2362	
Sand and Shale	2355	3591	2362	3598	
Lower Huron	3591	4360	3598	4367	_
Rhinestreet	4360	4513	4367	4520	
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WR-35 Rev (9-11)

# State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	09/03/2013	
API #:	47-041-05672	

Farm name: Ireland, James G	Operator Wel	I No.: Ireland We	11	
LOCATION: Elevation: 856.83	Quadrangle:	Vadis WV 7.5*		
District: Freeman's Creek	County: Lewis			
Latitude: 70 Feet South of 39 Deg.	05 Min	.00 Sec		
	37 Min			
Company: Dominion Transmission Inc.				
Address: 445 West Main St	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu, Ft.
Clarksburg, WV 26301	24"	12.6'	12.6'	grouted w/ 54cuft
Agent: James D. Blasingame	7"	32'	32'	grouted w/ 15cuft
Inspector: Bill Hatfield				
Date Permit Issued: 1/11/2013				
Date Well Work Commenced: 1/11/2013				
Date Well Work Completed: 2/8/2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig 🗸				
Total Vertical Depth (ft): 114'				
Total Measured Depth (ft): 114'				
Fresh Water Depth (ft.): 31'				
Salt Water Depth (ft.): not encountered				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): unknown				
Void(s) encountered (N/Y) Depth(s) N				
OPEN ELON BARRAGE A LA LA LA CALLARA		al caaretta a	-tt	hant)
OPEN FLOW DATA (If more than two producing formation Producing formation Pay	ons piease inch zone depth (ft)		ata on separate s	illeet)
Gas: Initial open flow MCF/d Oil: Initial open f				
Final open flow MCF/d Final open flow		ol/d		
Time of open flow between initial and final tests		\$		
Static rock Pressurepsig (surface pressure) at	fterHou			
Second producing formation Pay zo	one depth (ft)		V2	NED il and Gas
Gas: Initial open flow MCF/d Oil: Initial open f	7. 7. 0.	bl/d	RECE	NED Gas
Final open flow MCF/d Final open flow		ol/d	of O	il and
Time of open flow between initial and final tests	Hour	Š	Ource	- 2013
Static rock Pressurepsig (surface pressure) a	fterHou	irs	SEP !	13 5012
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those indi	and am familia	r with the infor	nation submitte	derthis Gocumentand
all the attachments and that, based on my inquiry of those indi	viduals immedi	ately responsib	le for Williams	the information believe
all the attachments and that, based on my inquiry of those indi- that the information is true, accurate, and complete.		and the second s	Environme	Sura,
OBQ -		9/9/13	2	
Signature			Date	

Were core samples taken? Yes	No X	Were cuttings caught during drilling? Yes	s No_X
Were Electrical, Mechanical or Geophy No electrical logs, a camera was run to confirm water			
FRACTURING OR STIMULATING	G, PHYSICAL CHANGE ORD OF THE TOPS A	ING: 1). DETAILS OF PERFORAT E, ETC. 2). THE WELL LOG WHICH IS ND BOTTOMS OF ALL FORMATION RFACE TO TOTAL DEPTH.	S A SYSTEMATIC
Perforated Intervals, Fracturing, or Stim	nulating:		
<del></del>	as determined to be a	a water well and not vent pipe from	an abandoned
natural gas or oil well.			
Plug Back Details Including Plug Type	and Depth(s):		<u>-</u>
Formations Encountered: Surface:	Top Dept	h / Bo	ttom Depth
	,		
			CEIVED of Oil and Gas
		Office	of Oil and Gas
<del></del>			SEP 13 2013

WV Department of Environmental Protection

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Office of Oil and Gas

JUL 2 3 2014

### State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

WV Department of Environmental Protection

API 47 - 043 - 0	3447 County LINCO	LN	District DUVAL	rotectio
Quad GRIFFITHSVILLE		FFITH, AUSTIN	Field/Pool Name G	RIFFITHSVILLE
Farm name ALLEN, TER	DESTRUCTION OF THE CO.		Well Number 212	
Operator (as registered with	PROPER PROPERTY AND A STATE OF THE PROPERTY AND A STATE OF	LC		
Address 5260 DuPONT		ARKERSBURG	State WV	Zip 26101
11441640	City_			
		led plat, profile view, a		
Тор		The state of the s	sting 416,223 M	
Landing Point of C Bottom				
Bottom	note Northing	Ea	sting	
Elevation (ft) 997'	GL Type of Well	■New □ Existing	Type of Report	□Interim #Final
Permit Type	d 🗆 Horizontal 🗆 Horizo	ntal 6A 📱 Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation 🗆 Conv	vert □ Deepen	□ Plug Back □ Red	rilling   Rework	□ Stimulate
Well Type 🗆 Brine Dispos	al □CBM □Gas □Oil ■Se	econdary Recovery 🗆 S	Solution Mining 🗆 Sto	orage 🗆 Other
Type of Completion ■ Sin	gle   ☐ Multiple Fluids Prod	uced □ Brine □Gas	□ NGL  ■ Oil	□ Other
Drilled with □ Cable				The second secon
	·			
Drilling Media Surface ho	ole ■ Air □ Mud ■Fresh W	ater Intermediate	hole Air 🗆 Mud	■ Fresh Water □ Brine
Production hole Air t	□ Mud □ Fresh Water 📕 Brit	ne		
Mud Type(s) and Additive	(s)			
N/A				
<u>v                                     </u>				
Date permit issued6/1	3/2013 Date drilling con	menced6/18/201	4 Date drilling	ceased 6/21/14
Date permit issued	pegan 7/11/14			
	With the second			
Verbal plugging (Y/N)	N Date permission grant	ed	Granied by	
Places note: Operator is re-	quired to submit a plugging appli	cation within 5 days of	verbal permission to r	dua
Flease note. Operator is rec	functio submit a prugging appri	cation within 5 days of	verbai permission to p	,
Freshwater depth(s) ft	650'	Open mine(s) (Y/N)	depths	N
Salt water depth(s) ft	44001 44501		(Y/N) depths	N
Coal depth(s) ft	588'-592'		ed (Y/N) depths	N
Is coal being mined in area		Carerings encounter	an (1113) arbina	
15 coat being finited in area	(4113)			Reviewed by:

API 47- 043	_ 03455	Farm na	ıme_ALLEN, 1	TERRY &	DAWNA	Wel	I number_107	,	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		circulate (Y/ N)
Conductor	12 1/4"	11 5/8"	30'	Used		LS			and In
Surface	8 3/4"	7"	548'	New	-	LS	84'		Υ
Coal									
Intermediate 1									
Intermediate 2								<u> </u>	
Intermediate 3							<del></del>	<del> </del>	
Production	6 1/4"	4 1/2"	2487.55'	New	J	-55			N
Tubing					į				
Packer type and de	epth set				<del></del>	<del></del>	_		
Comment Details  Circulated Est. 50 sks to surface on 7" surface cement job.  CEMENT Class/Type Number Slurry Yield Volume Cement WOC DATA of Cement of Sacks wt (ppg) (ft 3/sks) (ft 2/2) Top (MD) (hrs)									
Conductor									
Surface	Reg Neat	130	15.6	1	1.18	153	Surfa	ce	8
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozm	ix 150	14.2		1.27	254	944	<b>!</b> '	8
Tubing									
Drillers TD (ft Deepest forma Plug back pro  Kick off depth	tion penetrated cedure N/A	Berea		Loggers T Plug back					
Check all wire	line logs run	<b>■</b> caliper <b>■</b> neutron	■ density ■ resistivity		ed/direction		nduction temperature	□sonic	
Well cored	Yes 🖪 No	Conventi	onal Sidev	wall	W	ere cutting	s collected =	Yes □ N	Vo
		IZER PLACEM	ENT USED FO	R EACH C	ASING S	TRING _			
6 Centralizers every 84 tr	rom bottom on 4 1/2°, Centr	alizer placed mid string on 7							
WAS WELL COMPLETED AS SHOT HOLE									
WAS WELL	COMPLETED	OPEN HOLE?	□ Yes 🔒 N	o DET	AILS _				
WERE TRAC	WERE TRACERS USED								

API 47- 043 - 03447 Farm name ALLEN, TERRY & DAWNA Well number 212

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft	Number of Perforations	Formation(s)
1	7/15/14	2506'	2520'	84	Berea
			_		
				ļ	
				1	
				<u> </u>	
			_		
<u> </u>					
		<u> </u>		<u> </u>	<u> </u>

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PS1)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	7/15/14	5.3	866	958	647	1	42	15 bbls HCL
						*		
-						*		
					-			
					_			

API 47- 043	<u> </u>	Farm	name ALLEN,	TERRY 8	DAWNA	Well nu	mber_	212	
PRODUCING :	FORMATION(	<u>s)</u> .	<u>DEPTHS</u>						
Berea			2506'-2520'	TVD	2506'-2520'	MD			
		<del></del> -		_ 1 1 1 2					
				<del></del>					
		<del></del> -				<del></del>			
Please insert ad	ditional pages a	s applicable.		<del></del>		<del></del>			
GAS TEST	o Build up	Drawdown	□ Open Flow		OIL TEST o	Flow 🗆 F	ump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATIO	ON O	F TEST	hrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS ME	ASU	RED BY	
	mcf	pd	bpd	bpd _	bpd				□ Pilot
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM	I				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESCRIBE	ROCK TYPE	AND F	RECORD QUAN	ITITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FI	LUID (FRESH	IWATE	R, BRINE, OIL	GAS, H <sub>2</sub> S, ETC)
Sand/Shale	0	588	0			<del></del>			
Pittsburgh Coal	588	592							
Sand/Shale	592	1762		_					
Big Lime	1762	1970							
Big Injun	1970	2074	ļ <u>-</u>						
Shale	2074	2482							
Coffee Shale	2482	2502							
Berea	2502	2524							
Shale	2524	2675							
TD	2675								
				_					
TO 1 1 1	ļ , , ,	1: 11.	L						
Please insert ad	ditional pages a	s applicable.							
<b>Drilling Contra</b>	ctor Decker Drill	ing							
Address 11565	State Route 676		City	Vincent		State _	ЭН	Zip 45784	
Logging Comp	any Weatherford	international		1011		_ 1	A.D. /	26452	
Address 777 No	rth River Avenue		City	Weston	<del></del>	State <u>\</u>	<u>~~</u>	Zip <u></u>	
Cementing Cor	npany Universal	Services							
Address 5252 R		-	City	Allen		State F	Υ	Zip 41601	
Stimulating Co	,	ers Service Co	rp		_				
	uth Graham Street		City	Zanesville		State _	JH	_ Zip <u>43701</u>	
Please insert ad	lditional pages a	s applicable.							
Commissed	Roser Heldman	1			Tolonkon	304-420-1	107		
- /-	Roger Heldman	111.	Tisla O	perations Ma	nager I elepnone	N	ate 7/	18/14	<del></del>
Signature	grafice		i itie <u>~</u>	P-1010110 1110		—— <sup>D</sup>	ale		
•				_					

43.03447

Prepared for: HG Energy Dustin Hendershot	PRODUCERS SERVICE CORP.		ž š	Prepared by: Producers Serv Chris Bryan 109 S. Graham Zanesville, OH 740-454-6253	St.
CUSTOMER PO#	*				
Description	Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 1000-2000 PSI MILEAGE CHARGE PER UNIT ONE WAY IC ACID 15% ACID DELIVERY PRO HIB II PRO CLA FIRM LP PRO NE-1 PRO PEN DATA VAN	1 Unit @ 50 Miles	1 50 500 2 0.5 0.5 0.5 0.5 1	MI GAL HR GAL GAL		
Customer Approval:					

K

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# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work W

API 47 - 043 - 03448	County LINCOL	N	District DUVAL	
Quad GRIFFITHSVILLE 7.5'		FITH, AUSTIN	Field/Pool Name G	RIFFITHSVILLE
Farm name ALLEN, TERRY &			Well Number 213	
Operator (as registered with the C	OOG) H.G. ENERGY LLC	C		
Address 5260 DuPONT ROA	D City PAF	RKERSBURG	State WV	Zip <u>26101</u>
As Drilled location NAD 83/U Top hole Landing Point of Curve Bottom Hole	Northing 4,231,751 M Northing	East	ting ing	
Elevation (ft) 1,018'	GL Type of Well	■New □ Existing	Type of Report	□Interim ■Final
Permit Type   Deviated	□ Horizontal □ Horizon	tal 6A   Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert	□ Deepen	Plug Back 🗆 Redri	lling   Rework	□ Stimulate
Well Type ☐ Brine Disposal ☐	CBM □ Gas □ Oil ■ Sec	ondary Recovery   Se	olution Mining 🗆 St	orage 🗆 Other
Type of Completion ■ Single □ Drilled with □ Cable ■ Rota  Drilling Media Surface hole □ Production hole ■ Air □ Mud  Mud Type(s) and Additive(s)  N/A	ry ■ Air □ Mud ■Fresh Wa	ter Intermediate		I ■ Fresh Water □ Brine
Date permit issued 5/31/20				
Date completion activities began		Date completion acti		
Verbal plugging (Y/N) N	Date permission granted	d	Granted by	
Please note: Operator is required	to submit a plugging applica	ation within 5 days of v	rerbal permission to p	blug
Freshwater depth(s) ft	N/A	Open mine(s) (Y/N) o	lepths	N
	1160', 1300'	Void(s) encountered (	31	N
Coal depth(s) ft	600'-608'	Cavern(s) encountere	d (Y/N) depths	N
Is coal being mined in area (Y/N)	N	<del></del> :		Reviewed by:

Rev. 8/23/13									
API 47- 043	_ 03448	Farm na	me_ALLEN, 7	FERRY &	DAWNA	We	II number 21	3	
CASING STRINGS	Hole Size	Casing Size	Donah	New or Used	Grade wt/ft		Basket		nent circulate (Y/ N) de details below*
Conductor	12 1/4"	11 5/8"	Depth 30'	Used	T	LS	Depth(s)	FIOVI	Sand In
Surface	8 3/4"	7"	675'	New	<del></del>	LS	84'		Y
Coal	00,4	<del></del>		11011				<del>-</del>	<del></del>
Intermediate 1	<del></del>							<del></del>	
Intermediate 2		<del>-</del>							
Intermediate 3		-							
Production	6 1/4"	4 1/2"	2651'	New		I-55			N
Tubing		7 1/2	2001		<u>`</u>				
Packer type and d	epth set				l				
Comment Details	Circulated Est. 45 s	sks to surface on 7° surfa	ace cement job.					-	
CEMENT DATA	Class/Type of Cement	Number of Sacks			Yield t ³/sks)	Volume	e Cen Top (		WOC (hrs)
Conductor									
Surface	Reg Neat	150	15.6		1.18	177	Surf	face	8
Coal									= <u>-</u>
Intermediate 1									
Intermediate 2									
Intermediate 3				_					
Production	50:50 Pozmi	x 150	14.2		1.27	254	11	54'	8
Tubing									
Drillers TD (ft	) 2680°			Loggers T	ገን (ብ) 268	39			
•	tion penetrated	Berea		Plug back					
Plug back pro	•		<del></del>						
								_	
Kick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run	a caliper a neutron	density resistivity		ted/directi a ray		induction temperature	□soni	c
Well cored	Yes 🖺 No	Conventio	nal Sides	wall	W	ere cutting	gs collected	■ Yes t	no No
	HE CENTRAL!		ENT USED FO	R EACH C	ASING S	TRING _			
WAS WELL	COMPLETED A	AS SHOT HOLE	□ Yes 📱	No D	ETAILS				
WAS WELL	COMPLETED (	OPEN HOLE?	□ Yes ■ N	o DET	AILS _				
	<u>.                                    </u>								
WERE TRAC	ERS USED 🗆	Yes • No	TYPE OF T	RACER(S)	USED				

API 47- 043 - 03448 Farm name_ALLEN, TERRY & DAWNA Well number 213	
--	--

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/15/14	2488'	2502'	84	Berea
				<u> </u>	
				ļ	
		-			
				<del></del>	
	<u> </u>			-	-
				<u> </u>	

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	7/15/14	5.3	1053	1502	879		42	15 bbls HCL
	i					_		
				-				
<b>-</b>				-				
								-
					_			
	<del></del>		_				-	
	<u> </u>			-		<u> </u>		
								-

API 47- 043 - 03448		Farm	name_ALLEN,	& DAWN	IA Well	Well number 213			
PRODUCING 1	FORMATION(	<u>s)</u> .	<u>DEPTHS</u>						
Berea		<u>.</u>	2488'-2502'	_ TVD	2488'-25	02' MI	)		
			<u> </u>						
				_		<del></del>			
Diago incort ad	ditional pages			_		<del>_</del>			
Please insert ad									
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TES	T   Flow	□ Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	<del>-</del>	psi DUR.A	TION C	OF TEST _	hrs
OPEN FLOW		Oil	NGL			GAS			
	mcf	pd	bpd	bpd _		bpd □ Est	imated	□ Orifice	□ Pilot
LITHOLOGY/	ТОР	воттом	ТОР	воттом	1				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESC	CRIBE ROCK T	YPE AND	RECORD QU	ANTITYAND
Candichala	NAME TVD	TVD	MD	MD	TYPI	OF FLUID (FR	ESHWAT	ER, BRINE, C	OIL, GAS, H <sub>2</sub> S, ETC)
Sand/Shale Pittsburgh Coal	0	600	0	Í	_				
Sand/Shale	600 608	608 1764						<del></del>	
Big Lime	1764	1970					. <u>-</u>		<del></del>
	1970	2062	<del>                                     </del>						
Big Injun		<del></del>	<del>                                     </del>						·
Shale	2062	2464							<del></del>
Coffee Shale	2464	2486				<u> </u>			
Berea	2486	2504	<del> </del>						
Shale	2504	2680	<del> </del>						-
TD	2680							-	
			<u> </u>			-			
						<del></del>	<del></del>		
Please insert ad	ditional pages a	s applicable.			_				
Drilling Contra	ctor Decker Dril	ling		<del></del>			011	. 457	0.4
Address 11565	State Route 676	<u> </u>	City	Vincent		State	<u>он</u>	Zip <u>457</u>	84
Logging Compa	Weatherford	d International							
Address 777 No	rth River Avenue		City	Weston		State	<u>wv</u>	Zip <u>264</u>	52
Cementing Con	Universa	l Services							
Address 5252 R	npany <u>51.176765</u> t 1428		City	Allen		State	, KY	Zip <u>416</u>	01
		ers Service Co							
Stimulating Co Address 109 So	····P······y		City	Zanesville	_	State	ОН	Zip 437	01
Please insert ad			City			State		2·iP	
Completed by	Roger Heldmar	1			Tele	phone 304-42	0-1107		
Signature	1. Hio.	1,	Title O	perations Ma	_ roic	p.10110	Date 7	7/18/14	
70	1 11 11				A 44 1	· · · · · · · · · · · · · · · · · · ·		l Daniere	<del> </del>

43.03448

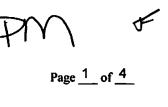
Prepared for:

HG Energy

Dustin Hendershot			J.	Chris Bryan	
	DRABUCEUS			109 S. Graham	St.
	PRODUCERS			Zanesville, OH	
	SERVICE CORP.				43702
				740-454-6253	
					9)
CUSTOMER PO#	<u> </u>				
Description	Notes	Amount	Units	Unit Cost	Total Cost
Description	Notes	Amount	Ullits	OIII GOSE	Total Cost
ACID PUMP CHARGE 1000-2000 PSI		1	EA		
MILEAGE CHARGE PER UNIT ONE WAY	1 Unit @ 50 Miles	50			
IC ACID 15%		500	GAL		
ACID DELIVERY		2			
PRO HIB II		0.5			
PRO CLA FIRM LP			GAL		
PRO NE-1 PRO PEN			GAL		
DATA VAN		0.5	STAGE		
DATA VAIN			SIAGE		
			- 2		
					- "
8					
Customer Approval:					

Prepared by:

Producers Service Corp



WR-35 Rev. 8/23/13

### State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47_ 043 _ 03455	County LINCOLN	District DUVAL							
Quad GRIFFITHSVILLE 7.5'		Field/Pool Name GRI	FFITHSVILLE						
Farm name ALLEN, TERRY & DAV		Well Number 107							
Operator (as registered with the OOG)	H.G. ENERGY LLC		_						
Address 5260 DuPONT ROAD	City PARKERSBURG	State WV	Zip 26101						
Landing Point of Curve N	Attach an as-drilled plat, profile vie lorthing 4,231,549 M orthing	w, and deviation survey  Easting 416,000 M  Easting Easting							
Elevation (ft) 855' GL	Type of Well ■New □ Existin	g Type of Report 🗆	Interim &Final						
Permit Type   Deviated   Ho	rizontal 🗆 Horizontal 6A 🝍 Vert	ical Depth Type 🗆	Deep   Shallow						
Type of Operation □ Convert □ Deepen ■ Drill □ Plug Back □ Redrilling □ Rework □ Stimulate									
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Secondary Recovery □ Solution Mining □ Storage □ Other									
Type of Completion Single   Multiple   Fluids Produced   Brine   Gas   NGL   Oil   Other Drilled with   Cable   Rotary									
Drilling Media Surface hole Air  Production hole Air Mud  Mud Type(s) and Additive(s)  N/A		diate hole	B Fresh Water □ Brine						
Date permit issued 5/31/2013	Date drilling commenced 6/28/	28F2CEIVED drilling ces	sed 7/1/14						
Date completion activities began	Tradia A Offic	ce of Oil and Gas 7	7/15/14						
· · · · · · · · · · · · · · · · · · ·	ate permission granted								
Please note: Operator is required to submit a plugging application within Mays half perfection for plug Environmental Protection									
Freshwater depth(s) ft	N/A Open mine(s) (	Y/N) depths	N						
Salt water depth(s) ft 1040	', 1460' Void(s) encount	tered (Y/N) depths	<u>N</u>						
Coal depth(s) ft 444'-	454 Cavern(s) encou	intered (Y/N) depths	<u>N</u>						
Is coal being mined in area (Y/N)	N		Reviewed by:						

API 47- 043	_ 03455	Farm na	ame_ALLEN,	TERRY &	DAWNA	Well	number <u>107</u>	•	
CASING	Hole	Casing		New or	Grade		Basket		nt circulate (Y/N)
STRINGS Conductor	Size 12 1/4"	Size	Depth	Used	wt/ft		Depth(s)	* Provide details below*	
Surface		11 5/8"	30'	Used		LS	0.41		Sand In
Coal	8 3/4"	7"	548'	New	-	LS	84'	<del> </del>	Y
Intermediate I							<u> </u>	-	
Intermediate 2				-		-	<del></del>	<del> </del>	
Intermediate 3								<u> </u>	
Production	0.4148	4.400	0.407.551	<b></b> _	<del>                                     </del>			<b>-</b>	
Tubing	6 1/4"	4 1/2"	2487.55'	New	1	1-55		<b>}</b>	N
Packer type and de	enth set			<u> </u>	<u> </u>			L	
Comment Details	Circulated Est. 50	sks to surface on 7° sur	face cement job.						
CEMENT	Class/Type	Numbe			Yield	Volume (ft.²)	Ceme Top (M		WOC
DATA Conductor	of Cement	of Sack	s wt (pp	<u>/E) (1</u>	t ³/sks)	714.7	10p (M	, <u>, , , , , , , , , , , , , , , , , , </u>	(hrs)
Surface	Reg Neat	130	15.6	-	1.18	153	Surfa	ce	8
Coal	rteg rteat	130	10.0	<del>'</del>	1.10			-	
Intermediate I						_		-	
Intermediate 2									
Intermediate 3									
Production	50:50 Pozm	ix 150	14.2	2	1.27	254	890	) <sup>'</sup>	8
Tubing	00.001 02.11		,		1127				
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	Berea		Loggers 7 Plug back					
Kick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run	a caliper neutron	density resistivity		ted/directi a ray		duction emperature	□sonic	
Well cored E	Yes 8 No	Conventi	onal Side	wall	W	ere cuttings	collected =	I Yes □	No
		IZER PLACEM	ENT USED FO	OR EACH C	ASING S	TRING			. <u>-</u>
		affizer placed mid string on 7*							
WAS WELL (	COMPLETED	AS SHOT HOLI	E □Yes ■	No D	ETAILS				
WAS WELL	COMPLETED	OPEN HOLE?	□Yes ■ N	lo DET	AILS _				
WERE TRAC	ERS USED 0	Yes B No	TYPE OF T	RACER(S)	USED _		· · · · · ·		

API 47- 043 \_ 03455 Farm name ALLEN, TERRY & DAWNA Well number 107

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/15/14	2343'	2350'	42	Berea
			_		
				1	
		1			
			-		
	-				
			<del> </del>	<u> </u>	
			-		

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	7/15/14	5.3	1078	558	830	1	42	15 bbls HCL
-								-
_				<del>                                     </del>				
<b>-</b>				<del>                                     </del>				
-								
<u> </u>				<del> </del>				
<b></b>								
-								
				<u> </u>		-}		

API 47- 043	_ 03455	Farm 1	name_ALLEN,	TERRY &	DAWNA	_Well n	umber	107	
PRODUCING I	FORMATION(S		<u>DEPTHS</u> 2340'-2356'	_TVD <u> </u>	2340'-2356'	MD 			
				 		<u> </u>			
Please insert ad	ditional pages a	s applicable.							
GAS TEST	🗆 Build up 🗆	Drawdown	□ Open Flow	C	DIL TEST of	low 🗆	Pump		
SHUT-IN PRES	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	'ION O	F TEST _	hrs
OPEN FLOW	Gas mcf	Oil pdl	NGL opd	bpd _	Water bpd			RED BY	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN F MD				_	UANTITYAND OIL, GAS, H₂S, ETC)
Sand/Shale	0	444	0			<u> </u>			
Pittsburgh Coal	444	454							
Sand/Shale	454	1618							
Big Lime	1618	1830							
Big Injun	1830	1918							
Shale	1918	2320							
Coffee Shale	2320	2340							
Berea	2340	2356							
Shale	2356	2513							
TD	2513								
		_	<u> </u>						
Please insert ad			]				·		
Address 11565	State Route 676		City	Vincent		_ State	ОН	Zip <u>457</u>	784
Logging Compa	any Weatherford	d International	City	Weston		_ State	w	Zip <u>26</u> 4	452
Cementing Con Address 5252 R	npany Universa	l Services	City	Allen		State	KY	Zip_410	6 <b>01</b>
Vanicas Annual								<u> </u>	
Stimulating Co. Address 109 So	uth Graham Stree		rp. City	Zanesville		_ State	ОН	Zip <u>43</u>	701
Please insert ad	ditional pages a	ıs applicable.							
Completed by	Roger Heldman	2			Telephone	304-420	-1107		
Signature	Ifn 1	oldin	Title O	perations Mar	nager		Date _7	//18/14	
Submittal of Hy	draulic Fractur	ing Chemical	Disclosure Info	rmation	Attach copy o	fFRACI	OCUS	Registry	

43.03455

Prepared for: HG Energy Dustin Hendershot  CUSTOMER PO#	PRODUCERS SERVICE CORP.		9	Producers Serv Chris Bryan 109 S. Graham Zanesville, OH 740-454-6253	St.
Description	Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 1000-2000 PSI MILEAGE CHARGE PER UNIT ONE WAY IC ACID 15% ACID DELIVERY PRO HIB II PRO CLA FIRM LP PRO NE-1 PRO PEN DATA VAN	1 Unit @ 50 Miles	1 50 500 2 0.5 0.5 0.5 0.5 1	MI GAL HR GAL GAL		

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WR-35 Rev. 8/23/13

## State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 043 - 03465 County LIN	COLN	District DUVAL	
Quad GRIFFITHSVILLE 7.5' Pad Name G	BRIFFITH, AUSTIN	Field/Pool Name GF	RIFFITHSVILLE
Farm name_ALLEN, TERRY & DAWNA		Well Number 127	
Operator (as registered with the OOG) H.G. ENERGY	YLLC		
Address 5260 DuPONT ROAD City	PARKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/UTM Attach an as- Top hole Northing 4.231,693 Landing Point of Curve Northing Bottom Hole Northing	E	and deviation survey asting 416,323 M asting asting	
Elevation (ft) 1,108' GL Type of W			Ca3 10 (C2400) 22
	orizontal 6A   Vertical		□ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Re	Service Conference Control of Conference Control	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil	Secondary Recovery	Solution Mining   Stor	age 🗆 Other
Type of Completion ■ Single □ Multiple Fluids F Drilled with □ Cable ■ Rotary	Produced □ Brine □Ga	ns □ NGL ■ Oil	□ Other
Drilling Media Surface hole ■ Air □ Mud ■Fresi	h Water Intermedia	te hole. ■ Air. □ Mud	Fresh Water Rrine
Production hole ■ Air □ Mud □ Fresh Water ■		21111	2 Tresh franci
Mud Type(s) and Additive(s) N/A	Dinie.		
Date permit issued 6/13/2013 Date drilling	commenced_ 6/10/20		
Date completion activities began 6/24/14	Date completion a	ctivities ceased	6/27/14
Verbal plugging (Y/N)N Date permission gr	ranted		
Please note: Operator is required to submit a plugging a	777	RECI	EIVED
Freshwater depth(s) ft N/A	Open mine(s) (Y/N	) depths Office of (	oil and Gas
Salt water depth(s) ft 1260', 1460'	Void(s) encountere	d (Y/N) depths	2 20 1
Coal depth(s) ft 700'-710'	Cavern(s) encounte	d (Y/N) depths	N
Is coal being mined in area (Y/N)N		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	oartment of Intak-Riotection

API 47- 043	03465	Farm na	me_ALLEN,	TERRY &	DAWNA	Well nu	mber_127		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bas Dep	ket th(s)	Did cement cire Provide deta	, ,
Conductor	12 1/4"	11 5/8"	30'	Used	LS				nd In
Surface	8 3/4"	7"	802'	New	LS		84'		Y
Coal									
Intermediate I			-						
Intermediate 2									
Intermediate 3					-				
Production	6 1/4"	4 1/2"	2731.8'	New	J-55			1	<u> </u>
Tubing									
Packer type and de	epth set				_		<u> </u>	-	
Comment Details	Circulated Est. 45	sks to surface on 7" surf	ace cement job.						
CEMENT	Class/Type	Number				Volume	Cement		woc
DATA Conductor	of Cement	of Sack:	s wt (pp	g) (f	<u>1 ³/sks)</u>	(U'7)	Top (MD	<u>)                                    </u>	(hrs)
Surface									_
Coal	Reg Neat	190	15.6	,	1.18	224	Surface	•	8
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production Tubing	50:50 Pozmi	x 150	14.2	!	1.27	254	890'		8
Drillers TD (ft Deepest forma Plug back pro-	tion penetrated	Berea		Loggers T Plug back	(ft) 2754' to (ft) N/A				
Kick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run	a caliper neutron	■ density ■ resistivity		ed/directional a ray		ction perature	□sonic	
Well cored	Yes A No	Convention	onal Sidev	wall	Were	cuttings co	llected = Y	Yes □ No	
		IZER PLACEME	ENT USED FO	R EACH C	ASING STRI	NG		<u> </u>	
	12,000	nees proceed that sound one ?							
WAS WELL C	COMPLETED	AS SHOT HOLE	□ Yes ■	No DI	ETAILS				
WAS WELL O	COMPLETED	OPEN HOLE?	□ Yes	o DET	AILS				
WERE TRACE	ERS USED	Yes B No	TYPE OF T	RACER(S)	USED				

API 47- 043 \_ 03465 Farm name ALLEN, TERRY & DAWNA Well number 127

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/27/14	2598'	2608'	60	Berea
					-
		_			

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	6/27/14	4.5	678	1655	438		42	15 bbls HCL
<del></del>						<del> </del>		
<del></del>								
				-		<del> </del>		
<u> </u>		-				<del> </del>		
<u> </u>	<u> </u>			<del>                                     </del>				
			_	- <del> </del> -		<del>  -</del>	<del> </del>	

WR-35 Rev. 8/23/13									Page <u>4</u> of <u>4</u>
	_ 03465	Farm	<sub>name</sub> ALLEN,	TERRY &	DAWNA	Well n	umber_	127	
PRODUCING Berea	FORMATION(		<u>DEPTHS</u> 2598'-2608'	_TVD	2598'-2608'	MD			
				_		<u> </u>			
Please insert ad	lditional pages a	s applicable.							
GAS TEST	🗆 Build up 🗆	Drawdown	□ Open Flow	(	OIL TEST 🗖 I	Flow 🗆	Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	ION O	F TEST _	hrs
OPEN FLOW	Gas mef	Oil pd	NGL bpd		Water bpd			RED BY	a Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN F				_	JANTITYAND OIL, GAS, H₂S, ETC)
Sand/Shale	0	700	0						
Pittsburgh Coal	700	710	ļ						
Sand/Shale	710	1864							
Big Lime	1864	2076							
Big Injun	2076	2173							
Shale	2173	2573							
Coffee Shale	2573	2594							
Berea	2594	2616			<b>_</b>				<u>_</u>
Shale	2616	2750	ļ						
TD	2750								
			ļ <u></u>				_		
				_	_				
			-		<del>- </del>				
	Iditional pages a	• •							
Address 11565	ctor Decker Dril State Route 676	ung	City	Vincent		State	ОН	Zip <u>457</u>	784
Logging Comp Address 777 No	any Weatherford	d International	City	Weston		State	wv	Zip <u>26</u> 4	152
		0							
Cementing Cor Address 5252 R	npany Universa t 1428	Services	City	Allen		State	KY	Zip <u>416</u>	501
Stimulating Co		ers Service Co	rp.	Zanesville		State	ОН	Zip <u>43</u> 7	
	lditional pages a		City			5.4.0		P	
Completed ha	Roger Heldmar	1			Telephone	304-420-	1107		
Signature	Lu Me	edi-	Title O	perations mar	nager		Date 7	/18/14	
	0								

43.03465

Prepared for:

HG Energy

Dustin Hendershot

304 771 5432



Prepared by:

Producers Service Corp

Chris Bryan

109 S. Graham St.

Zanesville, OH 43702

740-454-6253

		740-454-6253
INVOICE #:	16737	
WELL NAME:	Austin Griffith #127	
STATE & COUNTY:	Lincoln,WV	
TOWNSHIP/FIELD:	Griffthsville	
DATE of SERVICE:	6/27/2014	
CUSTOMER PO#		

) 50 Miles	1 50 500 2 0.5 0.5 0.5 0.5	MI GAL HR GAL GAL GAL	\$ \$ \$ \$	1,200.00	\$	1,200.00
0 50 Miles	50 500 2 0.5 0.5 0.5 0.5	MI GAL HR GAL GAL	\$ \$ \$ \$			
	500 2 0.5 0.5 0.5 0.5	GAL HR GAL GAL GAL	\$ \$			
	0.5 0.5 0.5 0.5	HR GAL GAL GAL	\$ \$ \$			
	0.5 0.5 0.5	GAL GAL GAL	\$			
	0.5 0.5 0.5	GAL GAL	\$			
	0.5 0.5	GAL	\$			
	0.5					
		GAL	\$			
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				7. -		
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				_		
				1 STAGE \$	TOT.	

Customer A	pproval:				

te-

WR-35 Rev. 8/23/13 pm

Page 1 of 4

## State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work RECEIVED Well Operator's Report of Well Work

JUL 2 3 2014

API 47 043 03468 County LINCO	OLN Dist	ica DUVAL	artment of
Quad GRIFFITHSVILLE 7.5' Pad Name M.A	A. BAYS Field	i/Pool Name G	RIFFITHSVILLE
Farm name_ALLEN, TERRY & DAWNA	We		
Operator (as registered with the OOG) H.G. ENERGY I	LC		
Address 5260 DuPONT ROAD City P	ARKERSBURG	State WV	Zip_26101
Top hole Northing 4,231,867 M  Landing Point of Curve Northing Northing Northing	EastingEasting _	416,287 M	
Elevation (ft) 1,140' GL Type of Wel	I ■New □ Existing	Type of Report	□Interim AFinal
Permit Type   Deviated   Horizontal   Horizontal	contal 6A   Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrilling	□ Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ S	Secondary Recovery   Solution	on Mining 🗆 Sto	orage 🗆 Other
Type of Completion Single Multiple Fluids Production Multiple Multiple Fluids Production Multiple Multiple Fluids Production Multiple Multiple Multiple Multiple Fluids Production Multiple Multiple Multiple Fluids Production Multiple Multiple Multiple Multiple Fluids Production Multiple Multiple Multiple Fluids Production Multiple Multiple Fluids Production Multiple Multiple Fluids Production Mult	Water Intermediate hole		□ Other
Date permit issued 6/13/2013 Date drilling co	mmenced6/13/2014	Date drilling o	ceased 6/18/14
	Date completion activitie	s ceased	6/27/14
	ited		
Please note: Operator is required to submit a plugging app  Freshwater depth(s) ft	Open mine(s) (Y/N) depth	s	KY.
	Void(s) encountered (Y/N Cavern(s) encountered (Y/N		UKT -
Coal depth(s) ft 729-735  Is coal being mined in area (Y/N) N	Cavern(s) encountered (1)	ry depuis	12.00
10 com owing mines in area (1711)			Reviewed by:

API 47- 043	_ 03468	Farm nan	ne_ALLEN, 7	TERRY &	DAWNA	AWell	number 124	ļ	
CASING STRINGS	Hole C	_ asing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did cen	nent circulate (Y/ N) de details below*
Conductor		11 5/8"	30'	Used	Woll	LS	iscpui(s)	T	Sand In
Surface	8 3/4"	7"	802'	New		LS	84'	<del> </del>	Y
Coal	0 3/4	<del></del>	002	11011	<del> </del>				
Intermediate 1	<del>-</del>							<del> </del>	
Intermediate 2								1	
Intermediate 3								+	
Production	6 1/4"	4 1/2"	2739'	New	-	J-55		+	N
Tubing	0 1/4	4 1/2	2139	11617	<u> </u>	<del>5-55</del>		<del></del>	
Packer type and de	enth set								
Comment Details	Circulated Est. 50 sks to	surface on 7° surface	e cement job.						
CEMENT DATA	Class/Type of Cement	Number of Sacks	Sturry wt (pp		Yield t ³/sks)	Volume (ft²)	Cemo Top (N		WOC (hrs)
Conductor						<u> </u>			
Surface	Reg Neat	200	15.6	,	1.18	236	Surfa	ce	8
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmix/ Econo	150	14.2	:	1.27	254	130	0,	8
Tubing									
Drillers TD (ft Deepest forma Plug back pro	tion penetrated Berei	1		Loggers T Plug back	—				
Kick off depth	(ft) <u>N/A</u>								,
Check all wire	line logs run	acaliper neutron	■ density ■ resistivity		ed/direct a ray		nduction emperature	⊡soni	c
Well cored	Yes A No	Convention	nal Sidev	wall	V	Vere cuttings	s collected	Yes 1	□ No
	HE CENTRALIZED from bottom on 4 1/2", Centralizer pl		NT USED FO	R EACH C	ASING S	STRING			
	<del></del>								
WAS WELL (	COMPLETED AS S	HOT HOLE	□ Yes 🖪	No D	ETAILS				
WAS WELL	COMPLETED OPE	N HOLE?	□ Yes ■ N	o DET	AILS _				
Wede to 40	ERS USED in Ves	- No	TVDE OF T	DACED(S)	LICED				

API 47	7- 043	03468	Farm name ALLEN, TERRY & DAWNA	Well number 124
--------	--------	-------	--------------------------------	-----------------

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/27/14	2622'	2632'	40	Berea
				<u> </u>	
				<u> </u>	
				<u> </u>	
				<b> </b>	
			_	<b> </b>	
				ļ	

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	6/27/14	4.5	888	1332	586		42	15 bbls HCL
				1				
				<del> </del>				
		-		ļ				
				ļ				
				<u> </u>				
			-	<u> </u>		<del>                                     </del>		

1

Page 4 of 4 WR-35 Rev. 8/23/13 Farm name ALLEN, TERRY & DAWNA API 47- 043 \_ 03468 Well number\_124 PRODUCING FORMATION(S) **DEPTHS** Berea 2622'-2632' 2622'-2632' **TVD** MD Please insert additional pages as applicable. **GAS TEST** □ Build up □ Drawdown □ Open Flow OIL TEST | Flow | Pump **SHUT-IN PRESSURE** Bottom Hole DURATION OF TEST hrs Surface \_\_\_ psi psi **OPEN FLOW** Gas Oil NGL Water **GAS MEASURED BY** bpd bpd bpd □ Estimated □ Orifice □ Pilot LITHOLOGY/ TOP воттом TOP **BOTTOM DEPTH IN FT** DESCRIBE ROCK TYPE AND RECORD QUANTITYAND **FORMATION DEPTH IN FT DEPTH IN FT DEPTH IN FT** MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) NAME TVD TVD Sand/Shale 729 0 0 Pittsburgh Coal 729 735 Sand/Shale 735 1892 **Big Lime** 1892 2098 Big Injun 2098 2203 Shale 2203 2598 Coffee Shale 2619 2598 Berea 2619 2640 Shale 2640 2750 TD 2750 Please insert additional pages as applicable. Drilling Contractor Decker Drilling Address 11565 State Route 676 State OH Zip 45784 City Vincent Logging Company Weatherford International Address 777 North River Avenue WV Zip 26452 Weston City State Cementing Company Universal Services Address 5252 Rt 1428 KY Allen City State Stimulating Company Producers Service Corp. Address 109 South Graham Street Zanesville Zip 43701 State OH City Please insert additional pages as applicable. Completed by Reger Heldman Telephone 304-420-1107 Title Operations Manager Date 7/21/14 Signature Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

43.03468

Prepared for:

HG Energy

Chris Bryan **Dustin Hendershot** 109 S. Graham St. 304 771 5432 Zanesville, OH 43702 SERVICE CORP. 740-454-6253 16737 INVOICE #: M A Bays #124 WELL NAME: STATE & COUNTY: Lincoln,WV TOWNSHIP/FIELD: Griffthsville DATE of SERVICE: 6/27/2014 CUSTOMER PO# **Unit Cost** Units Amount Notes Description ACID PUMP CHARGE 1000-2000 PSI 50 MILEAGE CHARGE PER UNIT ONE WAY 1 Unit @ 50 Miles 500 IC ACID 15% 2 ACID DELIVERY 0.5 PRO HIB II 0.5 PRO CLA FIRM LP 3.0 PRO NE-1 0.5 PRO PEN DATA VAN Customer Approval: \_\_\_\_\_

Prepared by:

Producers Service Corp

**Total Cost** 

4 200 00

Page 1 of 4

### State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 043 - 03469 County LIN	COLN District DUVAL	
Quad GRIFFITHSVILLE 7.5' Pad Name N		GRIFFITHSVILLE
Farm name HG ENERGY LLC	Well Number 12	
Operator (as registered with the OOG) H.G. ENERGY	YLLC	
Address 5260 DuPONT ROAD City	PARKERSBURG State WV	Zip 26101
As Drilled location NAD 83/UTM Attach an as- Top hole Northing 4.231,847  Landing Point of Curve Northing Northing Northing Of Details Of Deepen Deviated Deepen Drill  Well Type Brine Disposal CBM Gas Goile	Easting Easting  /ell New Dexisting Type of Reportation and Services Depth Type  Description Redrilling Rework	☐ Deep ■ Shallow ☐ Stimulate
Type of Completion Single Multiple Fluids F Drilled with Cable Rotary  Drilling Media Surface hole Air Mud Fres Production hole Air Mud Fresh Water Mud Type(s) and Additive(s) N/A	h Water Intermediate hole ■ Air □ M	
Date permit issued 6/17/2013 Date drilling	commenced5/29/2014 Date drillin	g ceased6/2/14
6/24/14	Date completion activities ceased	6/27/14 RECEIVED
Verbal plugging (Y/N) N Date permission gr	ranted Granted by	Office of Oil and
Please note: Operator is required to submit a plugging a  Freshwater depth(s) ft 60'	pplication within 5 days of verbal permission to  Open mine(s) (Y/N) depths	o plug  N  N  Environmental Pr
Sait water depth(s) it	Void(s) encountered (Y/N) depths	N.
Coal depth(s) ft 593'-600'	Cavern(s) encountered (Y/N) depths	N
Is coal being mined in area (Y/N) N		Reviewed by:

API 47- 043	03469	_ Farm name_	HG ENER	3Y LLC		Well r	umber_125		
CASING STRINGS		Casing Size	Depth	New or Used	Grade wt/ft		asket epth(s)		rirculate (Y/ N)
Conductor	12 1/4"	11 5/8"	30'	Used	L		1 - 1-2		and In
Surface	8 3/4"	7"	675'	New	L	s	84'	-	Υ
Coal									
Intermediate 1									
Intermediate 2		*							
Intermediate 3							-		
Production	6 1/4"	4 1/2"	2582.5'	New	J-:	55			N
Tubing									
Packer type and d	lepth set	<u> </u>	<u> </u>						
Comment Details	Circulated Est. 30 sks to	surface on 7" surface o	ement job.				-	· · · · · ·	<del></del>
CEMENT	Class/Type	Number	Slurry		ield	Volume	Cemen		woc
DATA Conductor	of Cement	of Sacks	wt (ppg)	( <u>n</u>	³/sks)	(U,1)	Top (M)	<del>U)</del>	(hrs)
Surface	Reg Neat	165	15.6	1	.18	195	Surfac	_	
Coal	Neg Neat	103	15.6	<del>-   '</del>		190	Suriac	<del>*</del>	8
Intermediate 1			1		-		<del> </del>		
Intermediate 2							1		· <u>-</u>
Intermediate 3			-		<del></del>		<del>-</del>		
Production	50:50 Pozmix/ Econo	150	14.2	<del>- </del>	.27	254	1130	,	8
Tubing	50.50 POZITICO ECONO	150	14.2	<u>'</u>	.21		1130		
Drillers TD (fi Deepest forma Plug back pro Kick off depth	ation penetrated Berea	3	•	Loggers TI Plug back (					
Check all wire	, ,	_	density resistivity	deviate	d/directio ray		uction nperature	□sonic	
Well cored	⊒Yes ■ No	Conventional	Sidewal	11	We	re cuttings c	ollected <b>=</b>	Yes 🗆 N	o
						_			
	HE CENTRALIZER		USED FOR	EACH CA	SING ST	RING			
o ocupantos every 64 li	rom bottom on 4 1/2", Centralizer plac	red rad south out t	_						
						-			
WAS WELL	COMPLETED AS S	HOT HOLE	□Yes 🖪 N	o DE	TAILS _				
WAS WELL	COMPLETED OPE	N HOLE?	Yes B No	DETA	AILS				
WERE TRAC	ERS USED 🗆 Yes	. ■ No T	YPE OF TRA	CER(S) L	JSED				

API	47- 043 - 03469	Farm name HG ENERGY LLC	Well number 125
-----	-----------------	-------------------------	-----------------

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/27/14	2486'	2496'	40	Berea
	-				
			_		

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	6/27/14	4.5	888	1463	757		42	15 bbls HCL
						-		
				-				

API 47- 043 - 03469 Farm		name HG ENERGY LLC				Well number 125				
PRODUCING I	FORMATION(	<u>s</u> ) _	<u>DEPTHS</u>							
Berea			2486'-2496'	TVD	2486'-2496'	MD				
			2400-2400	_ 140	2400-2400	МD				
						<del></del>				
_		<del></del> -		_ <del>_</del>						
		<del></del> .		_						
Please insert ad	ditional pages a	s applicable.								
GAS TEST	🗆 Build up 💢	Drawdown	□ Open Flow		OIL TEST 🗅	Flow c	2 Pump			
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURA?	TION C	F TES	т	hrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS N	<b>MEASU</b>	RED I	3Y	
	mc	îpd I	opd	bpd	bpd		nated			Pilot
LITHOLOGY/	TOP	воттом	ТОР	BOTTON	M					
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESCRIBE	ROCK TY	PE AND	RECOR	D QUANTI	ΓΥΑΝD
	NAME TVD	TVD	MD	MD	TYPE OF F	LUID (FRE	SHWAT	ER, BRI	NE, OIL, G	AS, H <sub>2</sub> S, ETC)
Sand/Shale	0	593	0							
Pittsburgh Coal	593	600								
Sand/Shale	600	1758								
Big Lime	1758	1960			_					
Big Injun	1960	2066		-						
Shale	2066	2462								<del></del>
Coffee Shale	2462	2483	-							
Berea	2483	2504		_						
Shale	2504	2600								
TD	2600	+								
			-							
			-							
Please insert ad	ditional pages s	e applicable								
		••								
Drilling Contract		ling								
Address 11565 S	State Route 676		City	Vincent		State	ОН	Zip	45784	
	Weatherfor	d International								
Logging Compa Address 777 No	th Piver Avenue	3 II RETITATIONAL	Cin	Weston		State	wv	7:	26452	
Address 177 No.	INITATE ATENDE		City	11031011	_	State		Zıp		
Cementing Con	<sub>npany</sub> Universa	l Services								
Address 5252 R			City	Ailen		State	KY	Zip	41601	
								_ •		
Stimulating Cor		ers Service Co			_	_	<b>~</b> !!		40704	
Address 109 Sou			City	Zanesville	· · · · · · · · · · · · · · · · · · ·	State	UH	Zip	43701	
Please insert ad	ditional pages a	is applicable.								
Completed by	Roger Heldman	1			_ Telephone	<u>304-420</u>	)-1107			
Completed by Signature	7)	Norda	Title O	perations Ma			Date 7	/18/14		
	1800	<u>Cui</u> or	11110						-	

43.03469 Prepared by: Prepared for: Producers Service Corp HG Energy **Dustin Hendershot** Chris Bryan 109 S. Graham St. 304 771 5432 SERVICE CORP. Zanesville, OH 43702 740-454-6253 INVOICE #: 16736 WELL NAME: M A Bays #125 STATE & COUNTY: Lincoln, WV TOWNSHIP/FIELD: Griffthsville DATE of SERVICE: 6/27/2014 CUSTOMER PO# Description Notes Amount Units ι ACID PUMP CHARGE 1000-2000 PSI \$ 1 EA MILEAGE CHARGE PER UNIT ONE WAY 1 Unit @ 50 Miles 50 MI \$ \$ \$ \$ IC ACID 15% 500 GAL ACID DELIVERY 2 HR PRO HIB II 0.5 GAL PRO CLA FIRM LP 0.5 GAL PRO NE-1 \$ 0.5 GAL PRO PEN 0.5 \$ GAL DATA VAN 1 STAGE \$

Customer Approval:

### Rev. 8/23/13

### State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

Environmental Protection

						7
API 47 - 043 - 0		LINCOLN	Di	strict DUVAL		
Quad GRIFFITHSVILLE	7.5' Pad N	ame M.A. BAYS			RIFFITHSV	LLE
Farm name HG ENERGY	LLC		W	ell Number 126		
Operator (as registered with	the OOG) H.G. EN	ERGY LLC		=		
Address 5260 DuPONT	ROAD	City PARKERS	BURG	State WV	Zip 26	101
As Drilled location NAD Top Landing Point of C Bottom	hole Northing 4.	an as-drilled plat, p 231,760 M	Easting	eviation survey 415,934 M		
Elevation (ft) 1,001'	GL Typ	e of Well New	□ Existing	Type of Report	□Interim <b>≜</b>	Final
Permit Type   Deviate	d   Horizontal	□ Horizontal 6A	■ Vertical	Depth Type	□ Deep	■ Shallow
Type of Operation □ Conv	vert □ Deepen 🖪	Drill 🗆 Plug Ba	ack 🗆 Redrillir	g 🗆 Rework	☐ Stimulate	
Well Type   Brine Dispos	al □ CBM □ Gas □	Oil   Secondary I	Recovery 🗆 Solu	tion Mining 🗆 Ste	orage   Othe	r
Type of Completion ■ Sir Drilled with □ Cable ■ Drilling Media Surface he Production hole ■ Air	Rotary ble ■Air □ Mud	AFresh Water		□NGL BOil e BAir □Mud		
Mud Type(s) and Additive	(s)					
Date permit issued 6/1	3/2013 Date d	rilling commenced_				6/7/14
						-
Verbal plugging (Y/N) Please note: Operator is re						
Freshwater depth(s) ft	N/A		nine(s) (Y/N) dep		EIVED	
Salt water depth(s) ft	1180', 1450'	Void(s	encountered (Y/	v) depthsce of	Oil and G	as
Coal depth(s) ft	600'-610'	Cavern	(s) encountered (	Y/N) depths	9 p 2014	
Is coal being mined in area	(Y/N)	N	<b>3</b>		artrReise	jþy:

Rev. 8/23/13									1 age 01
API 47- 043	_ 03470	Farm na	me_HG ENE	RGY LLC		Wel	II number_126	3	<del></del>
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/ N) de details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS	7		Sand In
Surface	8 3/4"	7"	675'	New		LS	84'	İ	Y
Coal								1	
Intermediate I									
Intermediate 2			_		<u> </u>				
Intermediate 3									
Production	6 1/4"	4 1/2"	2610.25'	New	J	-55			N
Tubing					-		<u> </u>		
Packer type and de	epth set								
Comment Details	Circulated Est. 15 s	sks to surface on 7" surfa	ace cement job.						
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurr M (pp	y \ 9g) (fi	rield 1 ³/sks)	Volume	Ceme Top (M		WOC (hrs)
Conductor									
Surface	Reg Neat	155	15.6		1.18	183	Surfa	ce	8
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmi	x 150	14.2		1.27	254	1130	0'	8
Tubing						•			
Drillers TD (ft Deepest forma Plug back pro Kick off depth	tion penetrated cedure N/A	Berea		Loggers T Plug back					
reion or dopin	(11)								
Check all wire	line logs run	■ caliper     ■ neutron	■ density ■ resistivity		ed/direction		induction temperature	□sonio	:
Well cored	Yes A No	Conventio	nal Side	wall	W	ere cutting	s collected	Yes D	No No
	HE CENTRALI om bottom on 4 1/2°, Central	ZER PLACEME	NT USED FO	R EACH CA	ASING ST	TRING _			
WAS WELL O	COMPLETED A	AS SHOT HOLE	□ Yes ■	No DI	ETAILS				

WAS WELL COMPLETED OPEN HOLE? □ Yes ■ No DETAILS \_\_\_\_\_

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED \_\_\_\_\_

WR-	35	
Rev.	8/23/1	3

API 47- 043 - 03470 Farm name HG ENERGY LLC

\_\_\_\_Well number\_126

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
_1	6/27/14	2504'	2512'	48	Berea
					_
		<u> </u>			
	-				
	<u> </u>				
					-
	_				· · · · · · · · · · · · · · · · · · ·
	-				
	·				

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	6/27/14	4.5	1133	1658	813		42	15 bbls HCL
		-				<u> </u>		
					_			
						<u> </u>		
						<del> </del>		-
<del></del>				-	-			
	-					<del> </del>		
				<del>                                     </del>				
		<del></del>		<del>                                     </del>				
-						-		
	]		<del> </del>	<del> </del>		<del> </del>	1	
<u></u>	-			<del> </del>		<del> </del>		

API 47- 043	03470	Farm	Farm name HG ENERGY LLC		Well number_126				
PRODUCING 1	FORMATION(	<u>s)</u> .	<u>DEPTHS</u>						-
Berea			2504'-2512'	TVD	2504'-2512'	мп			
	<del></del>	<del></del> .		_ 1 \D		MID			
		<del></del> .		_		<del></del>			
		<del></del> .		<del></del>		<del></del>			
		<del></del> .		_					
Please insert ad	ditional pages a	s applicable.							
GAS TEST	🗆 Build up 🗆	Drawdown	□ Open Flow		OIL TEST 🙃	Flow E	Pump	,	
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	CION C	OF TEST	_ hrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS N	/EASL	JRED BY	
	mcf	pd	bpd	bpd _	bpd			□ Orifice □ Pil	ot
LITHOLOGY/	TOP	воттом	TOP	BOTTOM					
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN				RECORD QUANTITY	
Sand/Shale	NAME TVD	TVD 600	MD	MD	TYPE OF FI	LUID (FRE	SHWAT	ER, BRINE, OIL, GAS	, H <sub>2</sub> S, ETC)
Pittsburgh Coal	600	610	0						
Sand/Shale	610	1767		-					
Big Lime	1767	1972							
Big Injun	1972	2080							
Shale	2080	2480							
Coffee Shale	2480	2500							
Berea	2500	2524							
Shale	2524	2630							
TD	2630				_				
					_				
			<del>                                     </del>	<del></del>					
			<del> </del>		<del></del>				
Please insert ad	ditional pages a	l s applicable.	<u> </u>					-	
Drilling Contra Address 11565	Ctor Decker Dill	g		Vincent		State	ОН	Zip_45784	
Address 11505	State Route 070		City	VIIICOIN		State	<del></del>	Zip <u>.c. c.</u>	
Logging Compa	any Weatherford	International							
Address 777 No	rth River Avenue		City	Weston		State	wv	Zip 26452	
Camantin - Can	npany Universal	Services							
Address 5252 R	npany <u>-                                   </u>		City	Allen		State	KY	Zip_41601	
Address						5			
Stimulating Co	p,	ers Service Co			_		•	. 40704	
•	uth Graham Street		City	Zanesville		State	ОН	Zip <u>43701</u>	
Please insert ad	ditional pages a	s applicable.							
Completed by Roger Heldman Telephone 304-420-1107									
Signature Title Operations Manger				nger		Date 5	5/18/14		
<u> </u>	0						_		
Submittal of Hy	vdraulic Fractur	ing Chemical 1	Disclosure Info	rmation	Attach conv	of FRACI	FOCUS	S Registry	

43.03470 Prepared for: Prepared by: **Producers Service Corp** HG Energy Chris Bryan **Dustin Hendershot** 304 771 5432 109 S. Graham St. SERVICE CORP. Zanesville, OH 43702 740-454-6253 16737 INVOICE #: WELL NAME: M A Bays #126 STATE & COUNTY: Lincoln, WV TOWNSHIP/FIELD: Griffthsville DATE of SERVICE: 6/27/2014 **CUSTOMER PO# Unit Cost Total Cost** Units Notes Amount Description 1 EA \$ ACID PUMP CHARGE 1000-2000 PSI \$ 50 MI MILEAGE CHARGE PER UNIT ONE WAY 1 Unit @ 50 Miles \$ 500 GAL IC ACID 15% 2 HR \$ **ACID DELIVERY** \$ 0.5 GAL PRO HIB II \$ 0.5 GAL. PRO CLA FIRM LP GAL \$ PRO NE-1 0.5 0.5 GAL PRO PEN 1 STAGE \$ DATA VAN

TO

Customer Approval: \_\_\_



WR-35 Rev (9-11)

#### State of West Virginia Department of Environmental Protection Office of Oil and Gas

DATE:	7/7/14	
API#:	47-7500026	

Well Operator's Report of Well Work

TION: Elevation: 3525 ft	Quadrangle: Wildell				
	2				
District: Green Bank  Latitude: 1048 Feet South of 38 Deg.	County: Pocal				
Longitude 3995 Feet West of 79 Deg.					
Company: Columbia Gas Transmission, LLC	Γο				
Address: 1700 MacCorkle Ave SE	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Charleston, WV 25325-1273	* no existing	casing altered			
Agent: Paul Amick			j.:		
Inspector: Bryan Harris					
Date Permit Issued: 6/27/14					
Date Well Work Commenced: 6/30/14					
Date Well Work Completed: 7/3/14			2.20 02 22	RECEIVED	
Verbal Plugging: NA			Offic	e of Oil and G	
Date Permission granted on:					
Rotary Cable Rig				JUL 0 8 2014	
Total Vertical Depth (ft):					
Total Measured Depth (ft): 6123 (existing)				Department of	
Fresh Water Depth (ft.): 80' & 142' rpt'd by driller in 1965			LIMIC	nmental Prote	
Salt Water Depth (ft.): none rpt'd by driller in 1965					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): none rpt'd by driller in 1965					
Void(s) encountered (N/Y) Depth(s) none rpt'd					
EN FLOW DATA (If more than two producing formation Producing formation Oriskany (natural gas storage) Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow	one depth (ft)_ owBl	5987 - 6035 bl/d	ta on separate si	neet)	
Time of open flow between initial and final tests	Hours		,	WY DEP	
Static rock Pressurepsig (surface pressure) af	terHou	rs			
Second producing formation Pay zon	Section and the second section and the second		4	F -0 m4	
Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow				2	
Time of open flow between initial and final tests			V 5	Office of Oil and Gas	

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Were core samples taken? YesN	oX Were cuttings caught during d	rilling? YesNo_N/A
Were Electrical, Mechanical or Geophysic	al logs recorded on this well? If yes, please list No	
FRACTURING OR STIMULATING, I DETAILED GEOLOGICAL RECOR	PUT THE FOLLOWING: 1). DETAILS OF PIPHYSICAL CHANGE, ETC. 2). THE WELL LOG D OF THE TOPS AND BOTTOMS OF ALL FILLBORE FROM SURFACE TO TOTAL DEPTH.	WHICH IS A SYSTEMATIC
Performed coil tubing hydro-blast r	mechanical wash and acid treatment.	
Acid treatment: 4000 gal HCl acid,	300 bbls fresh water, Avg rate = 4 bpm, ATP	= 0 psig
Plug Back Details Including Plug Type and	d Depth(s):	<del></del>
Formations Encountered: Surface:	Top Depth /	Bottom Depth
N/A - no new borehole drilled		
	F	RECEIVED
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